CVO FIRE

Rev-5

PIN NUMBER: 0558bl5590

# INSTALLATION MANUAL & USER HANDBOOK

## Small Oval Gas Fire Bowl

## [with Remote Control Ignition System]

For use with Natural Gas or LPG/Propane (See Data Plate)

## Important

It is recommended, even if you have fitted these appliances before, that you take the time to read through these instructions and ensure that you follow them step by step.

## Serial Number .....

**Please quote this serial number when calling our Customer Service team regarding Warranty issues or to order spare parts. The warranty is valid for 1 Year from the date of delivery. The Warranty card supplied is to be completed by the Installer and returned to the address below.**

**This manual must be handed to the owner of the property once the fire is commissioned and retained for future reference.**

Spirit Fires Ltd. Unit 4 Beaumont Square, Aycliffe Industrial Park, Newton Aycliffe, County Durham, DL5 6XN. Tel: 01325 327221, Fax: 01325 327292, Email: info@cvo.co.uk, Web: www.cvo.co.uk

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# Technical Data

## Specifications

| | |
|---|---|
| **Pilot Burner Assembly** | NG: P4/10 (or P4/10D, Holland Only), LPG: P4/16 |
| **Gas Inlet Connection** | 8mm O.D. Tube |
| **Minimum Flue Diameter** | 178mm |
| **Minimum Flue Height** | 3m |
| **Approximate Weight** | 22kg |

## Small Oval Gas Fire Unit

| Gas Type | Category | Inlet Pressure | Main Burner Injector Size (1 per appliance) | Heat Input kW Gross | Setting Pressure (HIGH) Mbar | Country |
|---|---|---|---|---|---|---|
| NG | $I_{2H}$ | 20 | 460 | 7.4 | 17.4 | AT, DK, ES, FI, GB, IE, IT, PT, SE |
| | | | *95 | 9.5 | 15.4 | |
| NG | $I_{2E+}$ | 20/25 | 460 | 7.4/7.0 | 17.4/21.7 | FR,BE |
| | | | *95 | 9.5/8.8 | 15.4/19.1 | |
| NG | $I_{2E}$ | 20 | 460 | 7.4 | 17.4 | DE, LU |
| | | | *95 | 9.5 | 15.4 | |
| NG | $I_{2L}$ | 25 | 460 | 7.0 | 21.7 | NL |
| | | | *95 | 8.8 | 19.1 | |
| PROP | $I_{3P}$ | 30 | 1.45 | 6.6 | 18.5 | NL |
| PROP | $I_{3P}$ | 37 | 1.45 | 7.0 | 19.6 | BE, ES, FR, GB, IE, PT |
| PROP | $I_{3P}$ | 50 | 1.27 | 7.9 | 31.9 | AT, NL, DE |

| | | | | | | |
|---|---|---|---|---|---|---|
| **High Flame Picture** | | | | | | |
| PROP | $I_{3P}$ | 30 | 1.60 | 8.5 | 29.2 | NL |
| PROP | $I_{3P}$ | 37 | 1.60 | 9.5 | 36.0 | BE, ES, FR, GB, IE, PT |
| **Minimum Flue Diameter** | | | 203mm | | | |
| **Minimum Flue Height** | | | 1m | | | |

There are 2 heat input versions of this bowl. See Data Plate for model being fitted.
* Indicates the Large Power and Flame Version

## Small Oval (Bowl) Dimensions

| Model | Height (mm) | Depth (mm) | Width (mm) |
|---|---|---|---|
| Small Oval Fire Bowl Unit | 195 | 330 | 490 |

## Required Fire Opening Dimensions

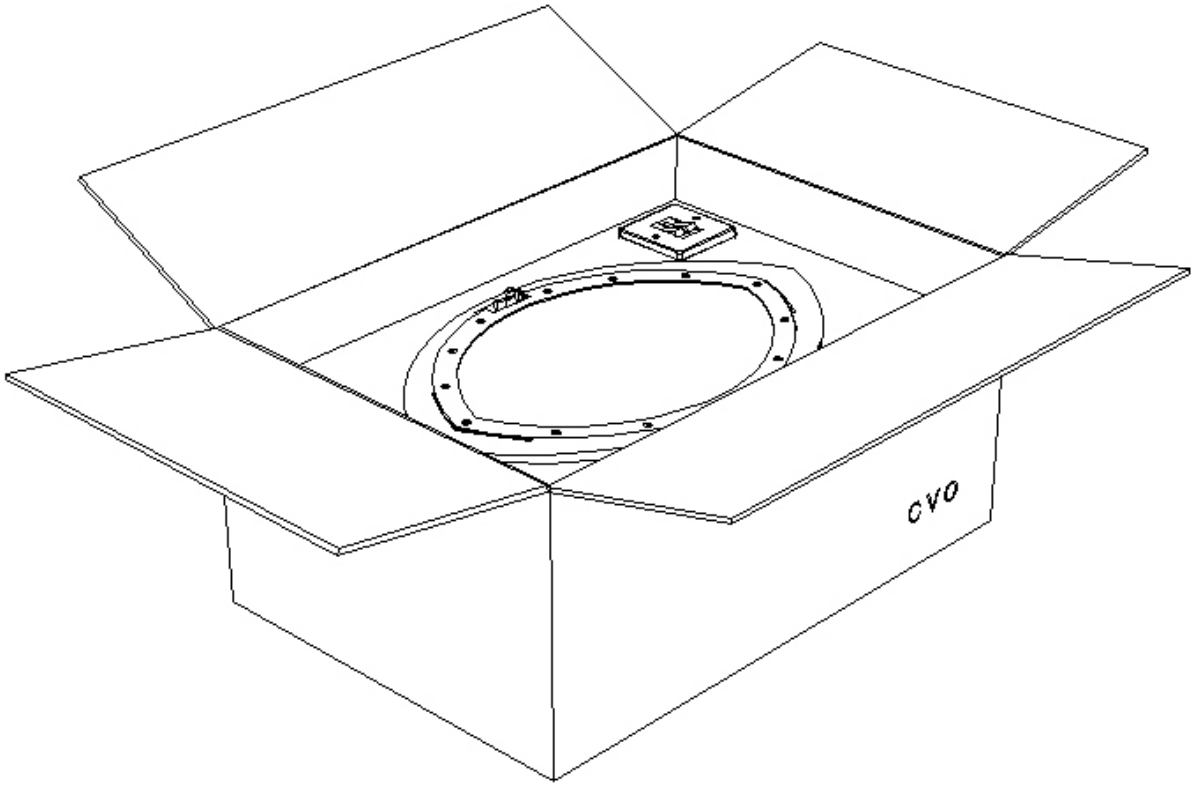
| Model | Max Height (mm) | Min Depth (mm) | Max Width (mm) |
|---|---|---|---|
| Enclosure Size | 620 | 460 | 620 |
| For Propane at 50mbar | 570 | 670 | 500 |

# Unpacking the Appliance

## Read these instructions fully before proceeding

Carefully examine the carton for damage before unpacking. If it is obviously damaged, consult the supplier over whether to proceed.

Remove the fire and examine its general condition. If satisfied by the condition proceed with the installation.




**The installation should only be carried out by a Gas Safe Registered fitter and in accordance with national and local regulations for both gas & electricity.**

The installation must also be in accordance with the relevant parts of local and national building regulations. For the Republic of Ireland, reference should be made to IS 813 and ICP3 and any guidance notes from Bord Gais.

**Failure to have the fire fitted by a qualified person will invalidate the Warranty, and CVO Fire will not accept any claims for incorrect installation.**

# Remote Control Information

**Read through this section before starting the installation**

The installation should only be carried out by a Gas Safe Registered fitter and in accordance with national and local regulations for both gas & electricity. The installation must also be in accordance with the relevant parts of local and national building regulations. For the Republic of Ireland, reference should be made to IS 813 and ICP3 and any guidance notes from Bord Gais.

**Failure to have the fire fitted by a qualified person will invalidate the Warranty, and CVO Fire will not accept any claims for incorrect installation.**

| | |
|---|---|
| **Power Supply** | 230v AC-15%+10%, 50/60 Hz |
| **Max power consumption** | 20VA cos 0.6 (Peak) |
| **Stand-by power consumption** | 1W |
| **Ambient Temperature** | 0.80 C |
| **Protection** | IP 20 |
| **Humidity** | Max 95% at 40c |
| **Electrical protection** | Not required |
| **Connections** | STELVIO/STOCKO |
| **Waiting time for demand** | 3-5 seconds typically |
| **Ignition Time** | 20 seconds typically |
| **Ignition Frequency** | 1Hz |
| **Spark gap** | Max 6mm |
| **Ignition Cable length** | 500mm |

A mains connection is required close to the fireplace-a 0.7m cable is provided for this purpose with a special plug connected to the burner control box. A 3amp socket may be used, or a fused spur outlet can be purpose provided. The colour code of the mains is as follows: Green/Yellow = **EARTH :** Brown = **LIVE :** Blue = **NEUTRAL**

The appliance must be in a position so that the mains supply is accessible for routine maintenance.
**A 3amp fused should be fitted in the plug of fused spur.**

## WARNING – This Appliance Must be Earthed

# General Installation Requirements

This fire is intended for decorative purposes. The installation must be in accordance with National Regulations and must be carried out by a qualified installer.

Clearances between the fire and all combustible materials must conform to National Regulations.

This fire must be installed and used in accordance with these instructions. Prior to installation, ensure that the local distribution conditions (identification of the type of gas and pressure and the adjustment of the appliance) are compatible.

The builders opening or fireplace opening must be constructed of a non-combustible material. When installed, this unit should be located to the rear of the fire opening. For some countries a non-combustible hearth must be fitted in front of the fire in accordance with National Regulations (e.g. United Kingdom).

Any flue damper plate or flue restrictor must be removed or fixed permanently in the fully open position, or shall only be fitted in accordance with National Regulations.

The chimney must be swept before the appliance is installed. **NOTE:** If the chimney is not swept, there is a possibility that loose debris will fall onto the appliance which may result in damage and unnecessary service costs.
Before the fire is installed a flue test in accordance with National Regulations should be carried out. The unit must not be installed unless the chimney / flue length is at least the length and size indicated in the 'Technical Data' section. Under no circumstances should this unit be installed and operated within any premises without an adequate flue or chimney system.
The gas connections must be in accordance with National Regulations.

An isolation valve, or valves, has to be fitted adjacent to the appliance which, when closed, allow(s) the complete burner and control assembly to be disconnected for maintenance or repair in accordance with National Regulations.

The pilot light and flame sensing device fitted to this fire is also an atmosphere sensing devise. If for any reason any part of the pilot assembly is to be replaced ALL the assembly including the pilot burner, thermocouple, electrode and injector must be exchanged complete for an original manufacturer's pilot assembly only. This atmosphere sensing devise is not adjustable and must not be put out of action. The pilot light shuts off both the main burner and pilot if evacuation of the combustion products is interrupted. If the fire shuts itself off, do not use the fire, and have the flue and fire checked by a suitably qualified person. The correct method for re-lighting is shown in the 'Re-set the Appliance' section.

# Installing the Fire Bowl.

**The installation should only be carried out by a qualified Gas Safe Registered fitter and in accordance with National and local Regulations for both gas and electricity otherwise this will invalidate your guarantee.**

**Step-1**

Check the packing label on the box to confirm gas type and gas pressure required for the bowl to be fitted and ensure this complies with the property supply.

**Step-2**

- If the bowl is being installed in a customer fabricated enclosure check that the enclosure size, flue system and flue length comply with the technical requirements set out ion page 3.
- If the bowl is to be installed in a CVO fabricated enclosure ensure the flue system and flue length comply with the technical requirements set out on page 3.
- Decide the location of the bowl within the enclosure.
- Ensure there is an 8mm gas line inlet. If the distance of the gas pipe exceeds 1.5mtrs it is recommended that after this point the gas pipe work is increased to 15mm and possibly 22mm to avoid pressure problems and nuisance shutdowns.

**Step-3**

- The bowl must be secured within the enclosure to do this the burner unit must be removed from the bowl. The burner unit is pre screwed in the bowl, these screws are to be removed using a 2.5mm allen key (provided). This is to gain access to the burner workings. These screws are located at each end of the burner as shown in the diagram below.
- **WARNING : Do not remove any other screws from the top as these hold the matting in place this will damage the gas fire and the fire will need to be returned to the factory for testing.**
- When the two screws have been removed from the burner, gently lift out the unit. This will gain access to the gas inlet valve and the fixing of the bowl.
- **NOTE:** Wiring and pipe work is best fitted through the back hole of the oval bowl.
- **NOTE:** It is very important that all electrical connections are fitted in their correct location, as they may become loose while the burner is handled during installation.

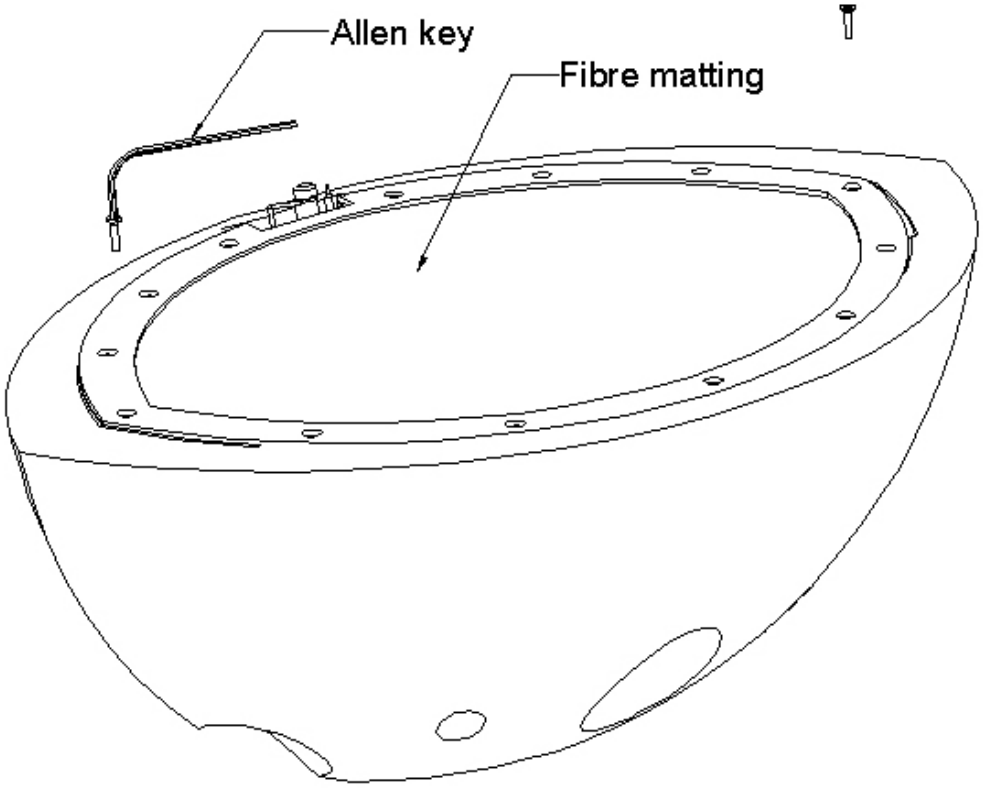
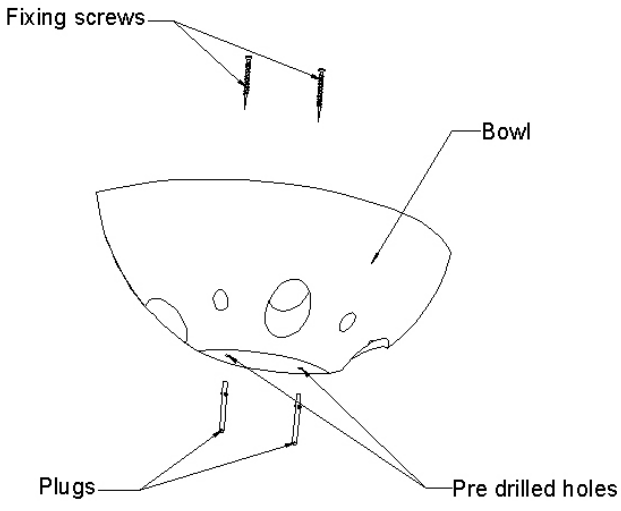



**Diagram of Burner Removal**

**Step-4**

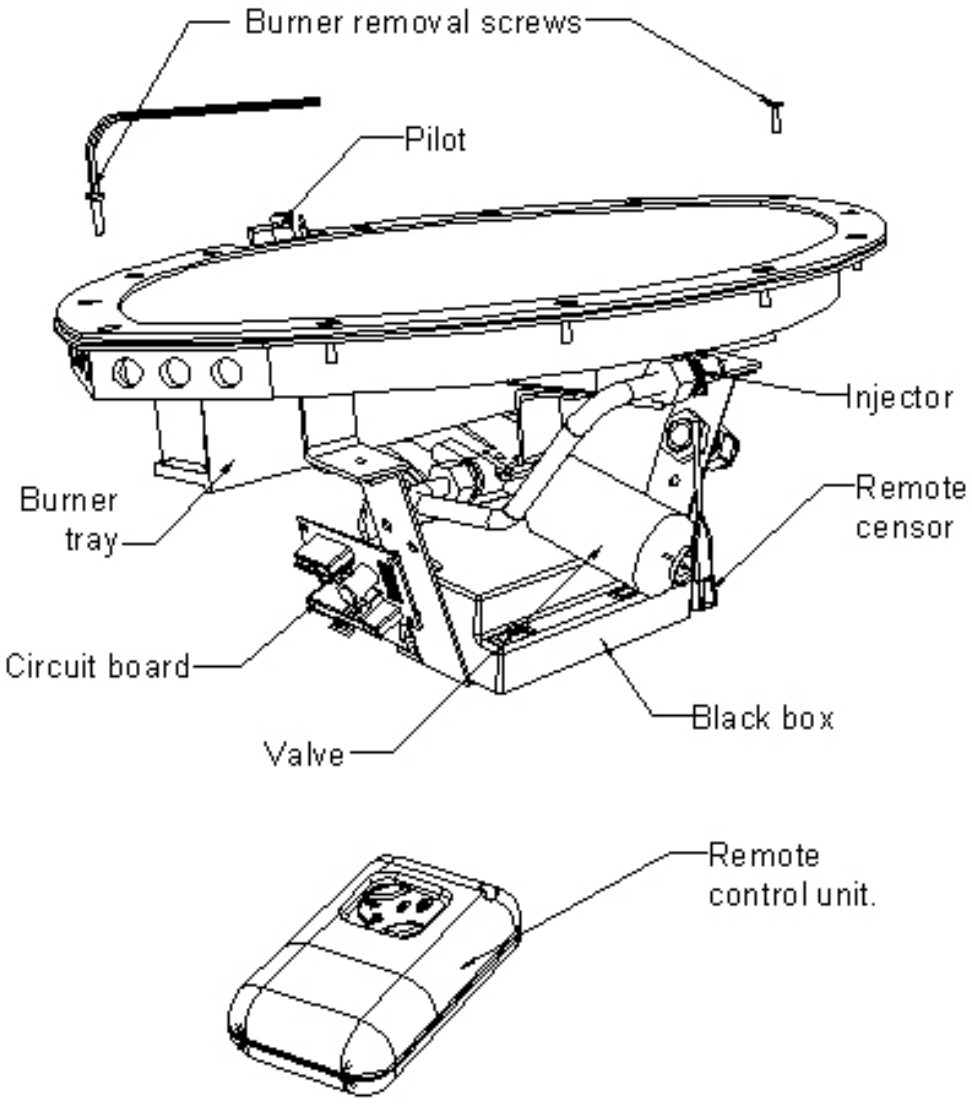
- Once removed place he burner unit in a safe location.
- The base of the bowl has holes which can be used to secure the fire bowl into the enclosure by the use of screws and rawl plugs. See Diagram below.
- Failure to secure the bowl will result in an unstable installation which may cause gas leaks.
- By feeding the gas inlet pipe and the mains lead through the hole in the back of the bowl re-fit the burner unit into the bowl again ensuring no connections have been disturbed.



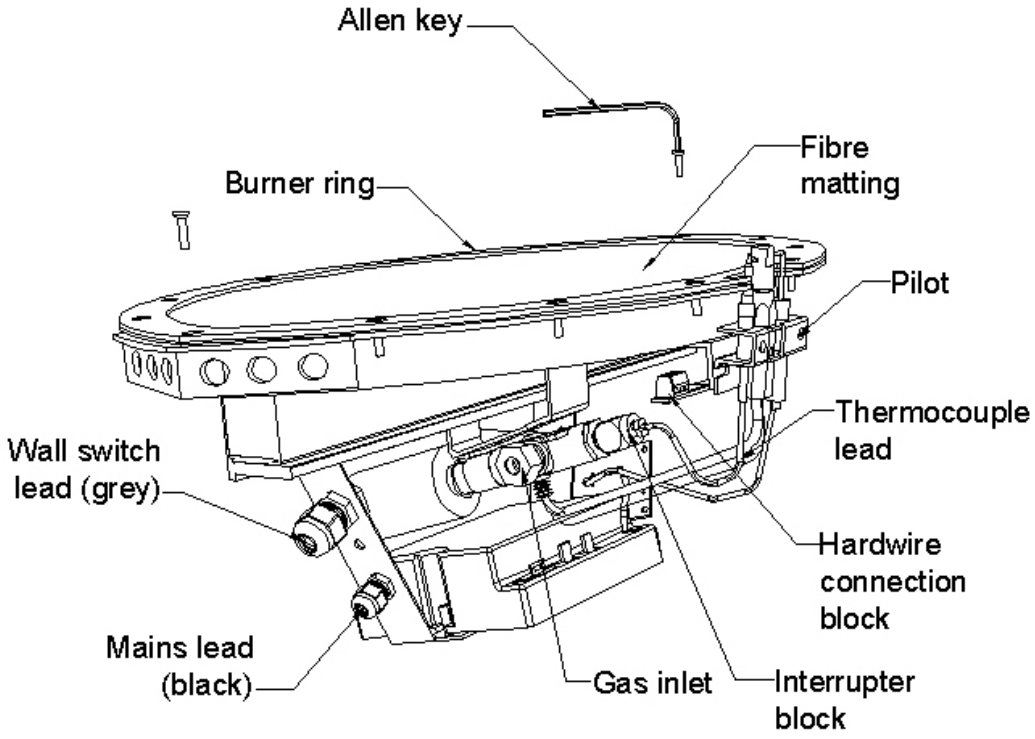
**Step-5**

- Decide the location of the "Hard Wire" Remote switch.
- Remove the switch from the "GREY" hard wire cable and store in a safe place.
- Route the grey cable to the desired location and refit the wall switch ensuring the wiring is in the correct order [see wiring diagram] – failure to wire the switch correctly will result is damage to the remote system.
- A 240V 3A Fused spur is required to connect the mains supply for the remote. This must be position in a location so the property owner can check and replace the fuse should this be required.
- Connect the "BLACK" mains cable to the fused spur. For easy installation, it may be necessary to join the mains lead with the bowl unit, and allow a suitable length of wire to the location of the 3 amp fuse spur.
- **WARNING:** DO NOT connect the hardwire lead (Grey or white) to the mains, as this will damage the unit.

**Small Oval Remote Burner - Perspective View of Front:**



**Small Oval Remote Burner – Perspective View of Back:**




**NOTE:** Gas inlet runs through the back hole of the bowl

## Commissioning the Fire

TEST THE GAS PRESSURE. Turn the fire on full; attach a manometer to the inlet test point and ensure there is a pressure of 20mbar (+/- 1mbar) for natural gas appliances or 37mb for propane appliances. Now turn on all the other gas appliances in the house and re check pressure. The pressure must still be in the tolerance of +/- 1mb. Now turn off all the other gas appliances and turn the fire down to pilot only, the pressure must still be in the tolerance of +/- 1mbar. If it is not, TRANSCO, BORD GAIS or the propane supplier must be called to adjust the governor to the house before the fire can be commissioned further.

Brief the customer on the operation of the appliance and give them the instructions. The customer must be told of the need for regular servicing of the appliance, this will be at least once a year, and be made aware that no rubbish is to be thrown onto the fire bed. **The customer must also be aware that purpose provided ventilation should be checked regularly.**

The installer must check that all of the combustion products are entering the flue after 10 minutes by traversing the perimeter of the fireplace using a smoke (match).

**If you have any questions, or the fire is not operating correctly, please contact the CVO Technical team BEFORE you leave the installation. As part of our Customer Service procedure you will be asked for the Fire Serial number [front cover] and Gas Safe Registration.**

**If the appliance is not fitted in strict accordance with these instructions this will invalidate the Warranty, and CVO Fire will not accept any claims for incorrect installation. CVO Fire cannot be held responsible for any damage caused due to incorrect installation and reserve the right to charge for any corrective work.**

# Re-setting the Appliance

### Hand Held Remote Unit

To start your appliance, press both buttons on the hand-held remote unit, hold them down for a minimum of three seconds until the ignition process begins which will run for 19-20 seconds before it turns onto the main burner. After the burner has ignited, it can then be switched to high or low using the one on the right side of the handset.

### Wall Mounted Remote Switch

Unlike the hand held unit, you are only required to press one switch. Press the left switch for 2 – 3 seconds. The ignition sequence will continue for 20 seconds before the burner is ignited to high flame position. The right button is only for turning the fire from high to low setting and vice versa.

## Warning - This Appliance Must be Earthed

**Please Note:** The remote system is supplied with both the hard-wired wall mounted switch and infrared system as standard.

Both options allow full control of the fire. Both options can be used in tandem. Alternatively the infrared can be used without the wall-mounted switch; vice versa the wall-mounted switch can be used with out the infrared system.

It is very important when removing one option or the other that it is done correctly in order for the option left to function correctly on its own.

The wall mounted switch and cable carries low voltage, (20v). The colour code used in the switch wiring diagrams must not be confused with normal mains colour coding.

## Option 1 – Choosing the Infra-Red System

**The following procedure should be carried out:**

Trace the cable on the wall-mounted switch back to the main body of the fire. Access to the small interphase is via the top cover situated under the burner shell, this is fastened in place with small counter sunk Allen headed screws. Once this panel has been removed you will have access to the junction at the end of the white cable, this is insulated with insulation tape.

The tape will need to be removed in order to gain access to the small junction terminal, there you will find three wires: **green-yellow, brown and blue.**

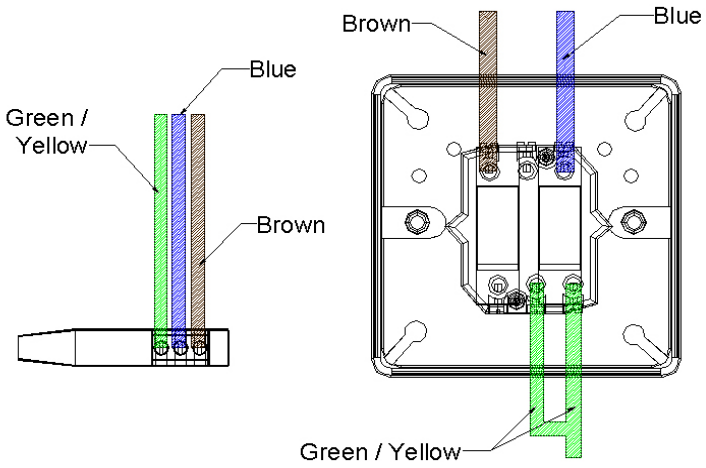
**Note:** Using a small electrician's screwdriver release all three wires from the terminal block. It is very important to insulate the terminal before putting the terminal back in the box.

Then replace the front cover and continue with the installation.

## Option 2 – Choosing the Hard-Wired Wall Mounted Switch

**If you choose to run the fire without the infrared system and just use the hard-wired wall mounted switch, the following procedure should be followed:**

Trace the infrared eye back to the firebox. Once you have gained access via the top cover situated under the burner shell, this is fastened in place with small counter sunk Allen headed screws.
In order to release the small socket you will need a small electricians screwdriver to prize back the plastic tag on the circuit board that holds the socket in place.



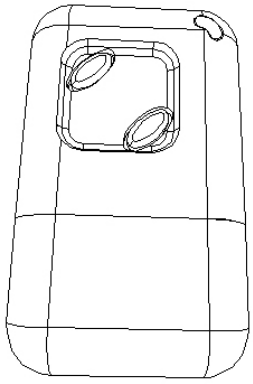
# Remote Control Options

The remote system is supplied with both the hardwired wall switch and infrared system as standard. Both options can be used as tandem; alternatively the remote control can be used without the wall-mounted switch and vice versa. It is very important when removing an option it is done correctly in order for the option left to function correctly on its own.

Option 1.

Option 1.

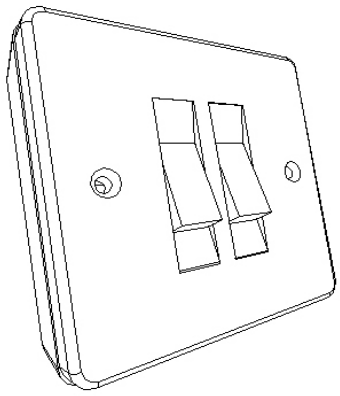
Without hardwired wall switch.
The following procedure should be carried out.
Trace back the cable on the wall switch into the burner casing at the end of the white lead there is insulating tape covering the connection, remove the insulating tape.you will uncover a green block, undo the three screws using a terminal screw driver,pull out the three wires and make sure you re-insulate the green block then replace the cover.



Option 2.

Option 2.

Without the remote unit.
Trace back the remote eye cable to the inside of the burner housing. The wire is attached to a circuit board. Simply remove the block from the socket on the circuit board,then replace the burner cover.



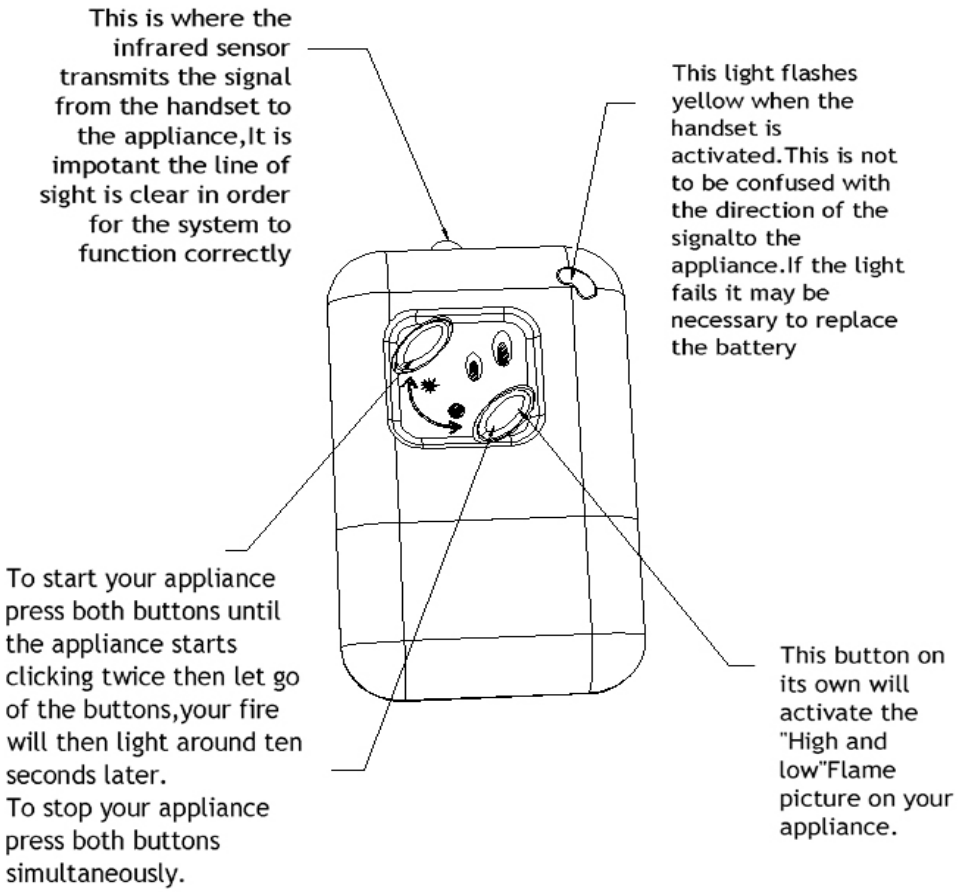
## Oxygen Depletion Pilot System

There is a highly sensitive oxygen depletion sensor designed into the pilot light. If any part is damaged the entire unit must be replaced. Do not attempt to bend or alter the flame head, thermocouple or aeration hole. Use only genuine spare parts as similar looking parts from other appliances may well give different or inferior performance and could lead to a hazard.

# Lighting the Fire

## Infra-Red Remote Operation

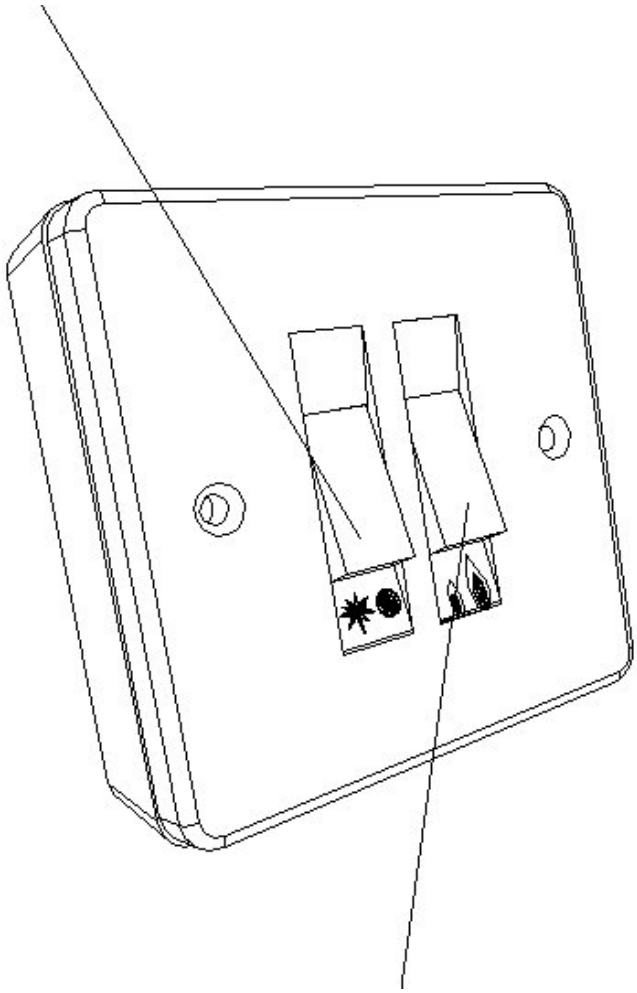
Infrared systems require "Line of sight" between the handset and the sensor at the appliance, it is a standard safety feature to ensure that the appliance cannot be remotely lit from another room.


This is where the infrared sensor transmits the signal from the handset to the appliance,It is impotant the line of sight is clear in order for the system to function correctly
This light flashes yellow when the handset is activated.This is not to be confused with the direction of the signalto the appliance.If the light fails it may be necessary to replace the battery
To start your appliance press both buttons until the appliance starts clicking twice then let go of the buttons,your fire will then light around ten seconds later.
To stop your appliance press both buttons simultaneously.
This button on its own will activate the "High and low"Flame picture on your appliance.

## Hardwired Wall Mounted Switch

Press the ON/OFF bottom (left side) for 2-3 seconds (until the spark ignition sequence begins) and release. The ignition sequence will continue for a further 10-15 seconds before the burner is ignited to the "High position."

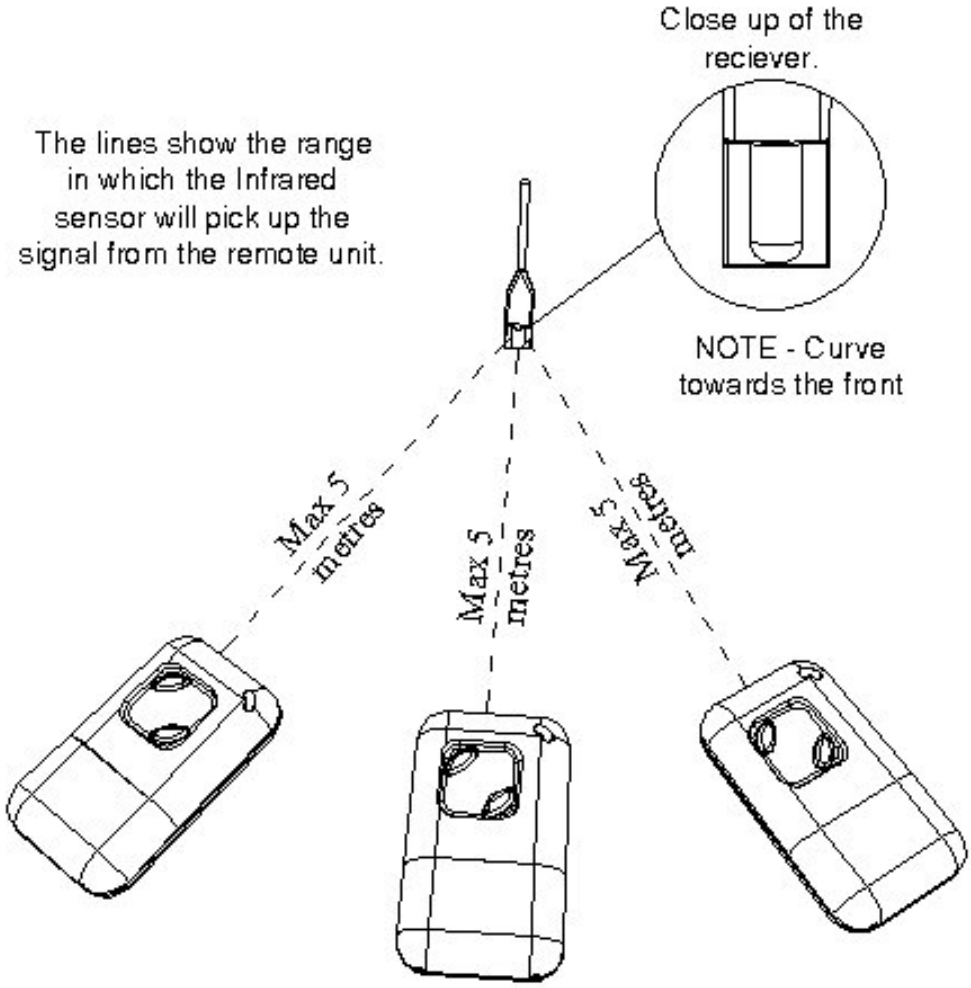
To switch off, press the ON/OFF button for 2-3 seconds.



Press the HIGH/LOW button (right side) for 2-3 seconds the appliance will change to low rate. This operation is repeated to switch between high and low.

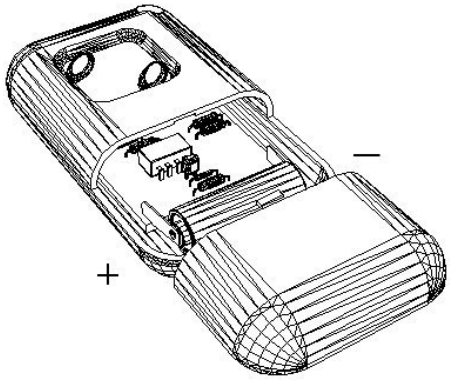
# Infra-Red Remote Operation

Infrared (IR) systems require "Line of sight" between the handset and the appliance. This is a standard feature to ensure the appliance cannot be lit from another room.


Close up of the reciever.
The lines show the range in which the Infrared sensor will pick up the signal from the remote unit.
NOTE - Curve towards the front
Max 5 metres
Max 5 metres
Max 5 metres

The range of your remote control unit is around 5 metres.It is very important the handset is directed toward the infrared eye on the appliance

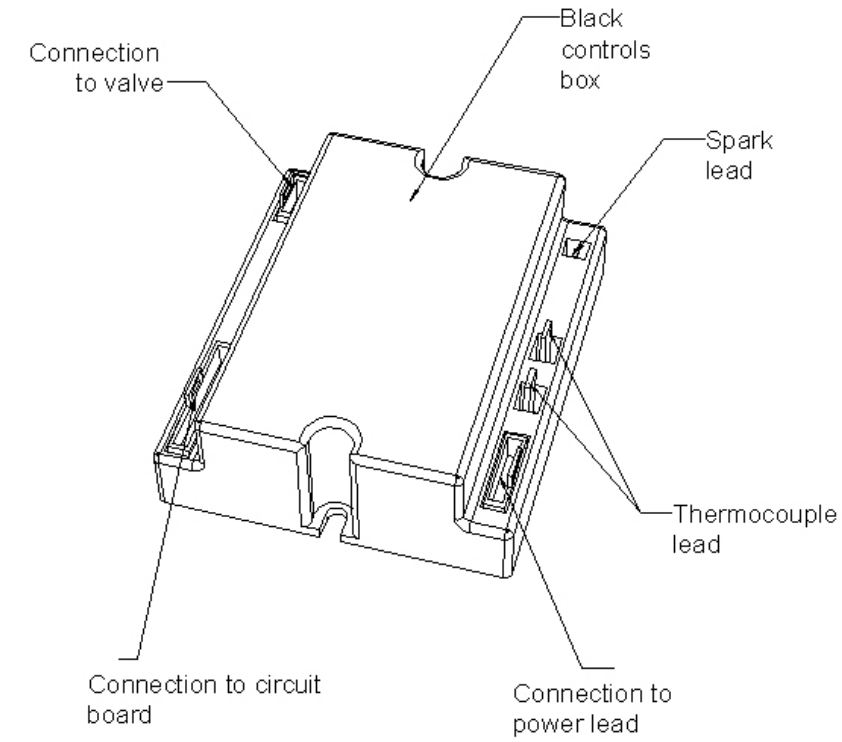
## Infra-Red Remote - Replacing the Battery



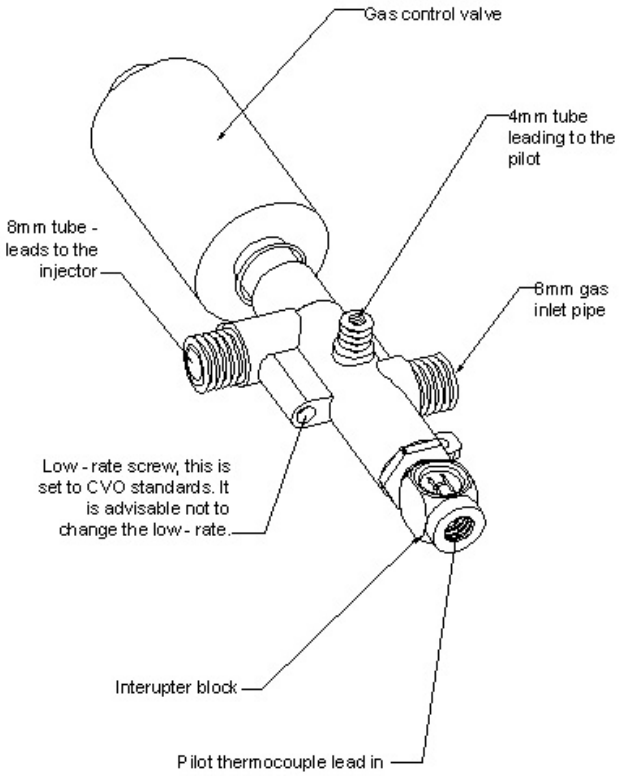

Fitting the battery.

Remove the front bottom half of your remote unit using a small screw driver.
Place in the battery with the + on the left hand side of your unit and replace the cover.
A battery is supplied with your surround.
Batteries are available to buy from most jewelry shops, or from ourselves.

## The Remote Controls - Black Box



## Remote Valve

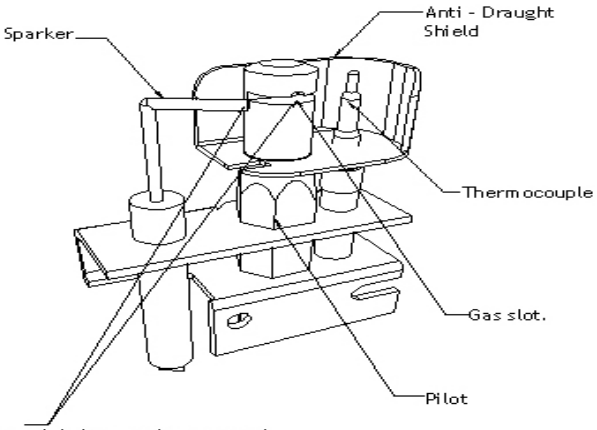

Gas control valve
4mm tube leading to the pilot
8mm tube - leads to the injector
8mm gas inlet pipe
Low - rate screw, this is set to CVO standards. It is advisable not to change the low - rate.
Interupter block
Pilot thermocouple lead in

## Spark Failure

The gap between the pilot electrode and the pilot should be 3.5 – 4.5mm and normally adjustment is not necessary (the electrode is very brittle). The spark should jump across the gap between the electrode and the gas outlet on the pilot head. If the ignitor fails, a lighted taper can be inserted into the pilot area to check that gas is reaching the pilot.

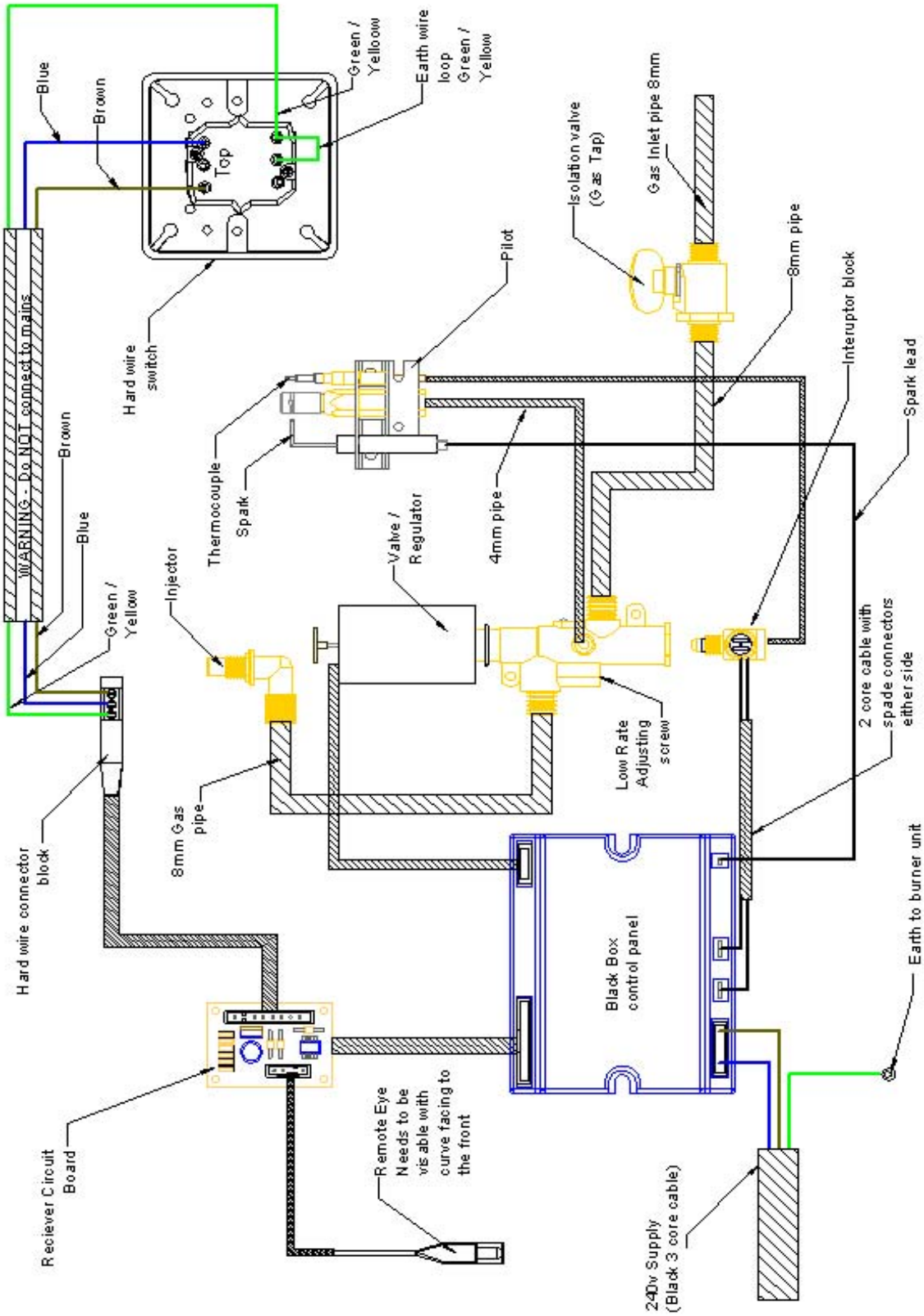
### Anti-Draught Shield and pilot.

On certain CVO gas fires there is an "Anti - Draught Shield" fitted. These shields are only available from CVO.
To fit the shield , make sure your fire is cold then simply slide the shield over the pilot, making sure you do not interfere with the pilot sparker too much, as it is essential the sparker is in the right place.




It is essential that you have a good spark across the sparker to the pilot gas slot for a good pilot light, so that the thermocouple has time to heat up, which then lights the burner.

# Remote Wiring Diagram




**minutes on full gas supply to ensure that the unit functions correctly. It is highly unlikely, that if the unit has been installed correctly as set out in this manual that the fire will not function. Please use the fault diagnosis tick sheets to resolve any issues which may arise.**

# Fault Diagnosis

| Symptom | Check List | Tick |
|---|---|---|
| **Unit does not respond** | Check remote handset is working properly and battery is charged | |
| | Check power supply has not been switched off | |
| | Check fuses in spur | |
| | Check wiring is correct on fire and hardwire switch | |
| **Remote handset does not work** | Check battery power | |
| | Check remote eye is visible and facing in the correct position | |
| **Hardwire manual switch does not work** | Check switch is wired properly | |
| | Check hardwire switch's green block is wired correctly | |
| **Unit clicks but no spark or weak spark** | Check spark lead is connected properly | |
| | Check spark electrode is in the correct area and the gap correctly distanced | |
| **Unit sparks but does not light pilot** | Check for a good spark | |
| | Check the spark is in the right area | |
| | Check the ventilation is not too strong and the flame is not blowing off the thermocouple | |
| **There is no gas** | Check isolation tap/shut off valves are free from grease | |
| | Check isolation tap/shut off valve are on | |
| | Check for blockages | |
| | Check gas working pressure is correct: | |
| **There is gas but pilot does not light** | Check gas working pressure is correct: | |
| | Check for blockages in pipes | |
| | Check for draughts which can reduce pilot flame | |
| | Check the pilot gas slot is clear of debris | |
| **Pilot lights but does not light main burner** | Check the pilot flame is heating the thermocouple and there is a draft shield fitted if required | |
| | Check the thermocouple nut is properly tightened into the valve/interrupter block | |
| | Check that the pilot lights early on ignition clicks | |
| | Check ventilation is not too strong and the flame is not blowing off the thermocouple | |
| | Check gas working pressure is correct: NG – 20mBar, LPG 37mBar | |
| **Burner lights but turns off after a few minutes** | Check thermocouple nut is properly secured to the interrupter block on the valve and flame failure device is operating correctly | |
| | Check ventilation is not too strong and the flame is not blowing off the thermocouple | |
| | Check gas working pressure is correct: | |

# Small Oval Gas Fire Bowl

## [with Remote Control Ignition System]

For use with Natural Gas or LPG/Propane (See Data Plate)

## Important

It is recommended, even if you have fitted these appliances before, that you take the time to read through these instructions and ensure that you follow them step by step.

## Serial Number .....

**Please quote this serial number when calling our Customer Service team regarding Warranty issues or to order spare parts. The warranty is valid for 1 Year from the date of delivery. The Warranty card supplied is to be completed by the Installer and returned to the address below.**

**This manual must be handed to the owner of the property once the fire is commissioned and retained for future reference.**

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# GENERAL INSRUCTIONS

This fire is intended for decorative purposes. Any purpose-provided ventilation should be checked regularly to ensure that it is free from obstruction. The fire should be serviced regularly by a qualified person.

The chimney should be swept before the appliance is installed, and should be swept and inspected regularly to ensure that all of the products of combustion are entering the flue and there is no excessive build up of soot.

Do not throw rubbish et cetera upon the surface area or otherwise disturb the fuel bed. Debris from any source, or soot formed, should be removed from time to time, see 'Cleaning instructions'.

The pilot light and flame sensing device fitted to this fire is also an atmosphere sensing device, which shuts off both the main burner and pilot if evacuation of the combustion products is interrupted. If the fire shuts itself off, do not use the fire, and have the flue and fire checked by a suitably qualified person.

Once the flue and fire units have been checked and remedial action taken, the fire is ignited in the manner depicted in section 'Lighting the fire'.

Due to the newness of materials, the fire may give off a slight smell for a period of time after commissioning. This is quite normal and any odours should disperse within a few hours of operation.

For some countries a purpose provided air supply must be fitted in accordance with National Regulations (e.g. Austria – minimum 100 $cm^2$).

This fire should be checked regularly to ensure that it is free from obstruction. A qualified person should service the fire regularly.

**NOTE: MANUAL CONTROL VERSION – The bowl must be secure to the base which it is mounted. If the bowl moves or "rocks" from side to side when operating the control knob the bowl will become damaged. In the event of this happening the installer should be recalled to secure the bowl.**

# Exchangeable Components List

| Part Code | Item Description | Code Number | Engineer Exchange Parts? | User Exchange Parts? |
|---|---|---|---|---|
| GC002 | Gas Valve (Remote) | GC002 | Yes | No |
| AC009 | Pilot Unit (NG Remote) | P4-05 | Yes | No |
| AC007 | Pilot Unit (LPG Remote with M9 Nut) | P4-16 | Yes | No |
| AC021 | Small Flame Picture (NG/Remote) | Injector CVO/460 | Yes | No |
| AC097 | Small Flame Picture (LPG 30/37 Remote) | Injector CVO/1.45 | Yes | No |
| AC021 | Large Flame Picture (NG Remote) | Injector CVO/460 Drilled | Yes | No |
| AC097 | Large Flame Picture (LPG 30/37 Remote) | Injector CVO/1.50 | Yes | No |
| AC026 | Isolation Tap | - | Yes | No |
| FC002 | Ceramic Matting Panel | CVO3/C | No | No |
| AC029 | Mesh Support Panel | CVO3/MS | No | No |

Small Outer Bowl Shell

| | | | | |
|---|---|---|---|---|
| BC008 | White Concrete | CVO3/SW | Yes | No |
| BC027 | Black Concrete | CVO3/SB | Yes | No |
| BC023 | Bronze | CVO/S | Yes | No |
| BC064 | Aluminium | - | Yes | No |

# Servicing Instructions

## General

The following servicing procedure should be carried out regularly and only by a qualified person.

Note: foreign bodies which can gather on the surface of the burner unit it is inevitable that servicing can be a dusty operation. Suitable precautions should be taken.

Important: The pilot and flame sensing device fitted to this fire is also an atmosphere sensing device. If for any reason any part of the pilot assembly is to be replaced, the entire assembly including the pilot burner, thermocouple electrode and injector must also be exchanged. This atmosphere sensing device is not adjustable and must not be disabled.

## Servicing procedure

**Step 1:** Turn off the fire and allow it to cool.

**Step 2:** Turn off the gas supply at the isolation tap.

**Step 3:** Disconnect the gas pipe from the valve. Lift the burner tray clear of the fire bowl.

**Step 4:** Remove the venturi cover screw and venturi cover (natural gas only), then remove and clean the injector. Do not use a needle or wire. It may be necessary to remove the outer fire casing to gain access to the injector.

**Step 5:** Using a soft brush or vacuum cleaner, remove any debris from the top surface of the fire unit.

**Step 6:** Re-assemble in the reverse order, and re-connect the gas supply.

**Step 7:** Check for gas soundness.

**Step 8:** Check that any purpose-provided ventilation is free from obstruction.

**Step 9:** Re-commission the fire as described in 'Commissioning the fire'.

# Cleaning Instructions

## Cleaning the Gas Fire Unit

Note: due to the surface area and flatness of the ceramic burner matting, it is inevitable that dust, debris from the chimney and combustion by-products will accumulate, consequently the surface area of the fire unit should be cleaned at regular intervals.

The most effective method of dust/debris removal is achieved with the aid of a vacuum unit, however, great care must be taken to ensure that there is no contact between the vacuum unit and the surface area of the fire unit, as damage to the matting material will result in the complete replacement of the matting panel.

Turn off the fire unit and allow it to cool.

Once cool, using a vacuum cleaner with a soft brush head gently remove any debris/dust from the surface of the fire unit.

After ensuring that no damage has been done to the surface of the fire, the unit is ready to re-ignite.

## Cleaning Stone Components

Once installed, the unit should be dusted periodically to remove naturally collecting dust particles from its surfaces - this can be done using a duster or vacuum cleaner.

Note: where a vacuum unit is used it should have a soft brush head to prevent the risk of damage or marking to the unit.

## Removing Spillages

Where a liquid has been spilled onto the surface of the unit, it should be removed quickly to prevent staining or serious damage. A solution of warm water and organic cleaner will give best results. Apply the mixture with a dabbing motion, using a sponge. The sponge is squeezed dry and used to dab up the cleaning mixture from the surface until all evidence of the spillage has been removed. The surface can then be allowed to dry naturally.

## Removing Scuff Marks

Removal of scuff marks should be carried out in the same manner as above if attempting to remove a spillage. However on Limestone it may be necessary to use a scotch brite pad in a slight scrubbing action to remove stubborn marks. If the scuff mark persists it may be necessary to use a stronger cleaner. Please contact CVO Fire for details.

## Removing Powders, Soot, Ash or Grit

These should be removed without the use of liquids of any kind. Best results are achieved by using a vacuum cleaner; to lift the particles from the surface of the surround, or by blowing or fanning the particles away with a piece of card.

If, after removing the powder there is still evidence of a staining, this can be removed by using an organic cleaner mix as stated previously.

## Removing Wax

However, in the event of molten wax falling onto the surface, the following method of removal is suggested. Do not attempt to remove any spilled wax whilst still molten, attempting to rub away the spillage will simply spread it across a greater surface area.

Once cooled any heavy globules of wax can be picked away from the surface. Next place a piece of heavy blotting paper over the affected area, and run a hot iron over it, the wax which is melted by the iron will be drawn away from the surface of the surround by the blotting paper.

It may be necessary to repeat this process several times until all the wax has been successfully removed.

If blotting paper cannot be obtained a heavy-duty kitchen towel or similar absorbent material will suffice.

## Cleaning Metal Components

Bronze metalwork can be kept clean by simply dusting or wiping with a damp cloth. Where bronze metalwork has become tarnished, a highly polished finish can be achieved using a cloth and a propriety brass cleaning fluid - simply follow the instructions given on the container. (Brass cleaner fluid is available from hardware stores to add an extra shine.)

Fine (0000 grade) wire wool can be used to remove slight scratches from brushed steel should they occur. Please note that you must always rub the metal in the direction of the grain.

Do not rub in a circular motion or across the grain.

In the interest of personal safety, please do not attempt to clean the metalwork when the fire is ignited or the metalwork is still hot.

## Bronze Service and Aftercare Requirements

**When completing the annual service of the Bronze Cube Unit, refer to the enclosed technical installation and operational manual & the optional remote control instruction document.**

The gas unit should be installed to the manufacturer's instructions by a Gas Safe registered gas installer, every 12 months the gas fire unit should undergo a regular service, this work should be carried out by a competent person who is Gas Safe registered and familiar with the CVO Fire range of goods.

**When carrying out the annual service, the competent person should examine and verify the following;**

1. The correct safe operation of the ODS (oxygen depletion system)
2. That the fire unit correctly cross-lights
3. A pressure drop test to verify that there are no gas leaks
4. That the electronic ignition system operates correctly
5. That the burner surface is free from damage and debris
6. That the owner has a copy of the installation and operation manual

## Burner Surface Cleaning Procedures

**Note: the gas fire must be switched off when cleaning the burner surface.**

The burner surface is made from carbon coated glass material, the gas passes through the matting and is ignited above the burner surface, any debris which may fall onto the surface from the chimney or flue system can potentially reduce the efficiency of the fire unit, consequently the surface of the burner should be kept clean.

Great care must be taken in removing large debris from the surface of the glass matting. Excess cleaning will damage the surface. Holes in the surface mean the bowl cannot be used until the matting is replaced. This can only take place at the factory. NOTE: the surface is delicate to handle but does not damage through heat.

Every unit has been designed, manufactured and type tested to ensure that it conforms to the current National and European DFE (Decorative Fuel Effect Gas Fire) Legislation, Low Voltage Directive (LVD) and the Electro Magnetic Compatibility Directive (EMC), (which is required for remote control units only).

If you have any queries or doubts regarding these instructions or require additional support or advice on our products, please contact our CVO Technical Department on 01325 327221.

# WARNING: Fire Guards

**This appliance is not fitted with an integral guard. In normal use consideration may be given to the use of a fireguard conforming to BS6539 or BS6778, so that the approach to the appliance is limited such that access to the flame is minimised**

It is recommended that a fireguard conforming to the requirements of BS6539 or BS6778 be fitted if the fire is used in the presence of young children, the elderly or the infirm.

The installer is to advise the user not to stand too close to the appliance for prolonged periods of time and warn that loose clothing is particularly at risk of burning due to the presence of an unguarded flame.

In addition, the installer is to advise the user against placing combustible material directly in front of the appliance. Floor coverings, such as carpets, are considered to be acceptable.

## Hearths

For some countries a non-combustible hearth must be fitted in front of the fire in accordance with National Regulations (e.g. United Kingdom).

## Metal Cast Bowls

Bowls which are manufactured from Cast Metal are sand cast at a UK Foundry and then Hand Polished for over 15 Hours at the CVO Fire Factory. Pitting and Air Holes are a normal occurrence and are a part of the unique quality of such a hand made piece. All Bowls are inspected and given a full quality control check at the factory. If the Bowl supplied includes Pitting and Air Holes this will have passed the in-house inspection and cannot be used to form a Warranty claim. We hope that you will see that the overall beauty and uniqueness of your CVO Fire outweighs what is a very minor feature.

# WARRANTY

**This appliance is supplied with a manufacturer's warranty which is valid from 12 months from date of delivery.**

**The Warranty covers defective components only and does not cover damage caused by incorrect installation or normal wear and tear caused by usage.**

**When making a Warranty claim you will be required to supply the serial number of the appliance [as shown on the front of this booklet] and full details of the GAS SAFE registered engineer who installed and commissioned the appliance. We make ask for proof o install and a copy of the receipt.**

**The warranty does not include damage to the matting surface which is highly durable and will last the life of the product under normal usage.**

**Damage to the outer surface to the bowl caused by handling or cleaning is not covered by the warranty.**

## ONLY USE GENUINE REPLACEMENT PARTS

To order Spare Parts please contact Customer Services on 01325 327221. Opening hours are 9.15am to 3.15pm Monday to Friday.

**For further Technical information please call our CVO Technical Department on 01325 327221.**


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**The following information supplied in this manual is correct at the time of publish; Updated on the 7-10-2009. There may be changes made in future as we improve our products. If there are any queries please write or call our Technical Department.**